ABSTRACT OF THE DISCLOSURE

A radioactive seed implantation system particularly adapted for use in the treatment of prostate cancer, the system incorporating multiple individually longitudinally and infinitely adjustable needles carrying radioactive seeds which may be simultaneously and precisely implanted in a prostate gland with a minimum of surgical time and operating room expense while minimizing swelling of the gland and reducing patient trauma. An improved method of implanting radioactive seeds in a prostate gland is also disclosed.